

**Abstract of the Disclosure**

A closed single-use system for mixing, storing and homogenizing liquids, comprising an assembly constituted by a rigid container (1) fitted with a non-invasive pump (4), the container (1) enclosing a generally parallelepipedic single-use bag (2), the lower face and the upper face of which are connected in fixed manner by a mixing duct (3) which is inserted into the pump (4) and which, during operation, allows the closed-circuit circulation of the liquid in the bag (2), for example from the bottom of the bag to its top, the pump (4) being open so that the mixing duct (3) can be inserted into it and removed from it.